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**INDIAN INSTITUTE OF TECHNOLOGY BOMBAY**

**NOTICE INVITING PREQUALIFICATION BIDS OF  
CONTRACTORS FOR**

**CONSTRUCTION OF ACADEMIC SCIENCE BLOCK 1 (GROUND PLUS  
10 UPPER FLOORS) INCLUDING FINISHING WORKS, INTERNAL  
WATER SUPPLY, SANITARY AND ELECTRICAL INSTALLATIONS,  
FIREFIGHTING, FIRE ALARM AND ELV SYSTEMS, LABORATORIES,  
LIFTS, AIRCONDITIONING, EXTERNAL DEVELOPMENT AND  
FURNITURE WORKS AT IIT BOMBAY, POWAI, MUMBAI – 400076**

**PQ No.: IITB/DIPS/ASB1/PQ/06**

**Dated:19<sup>TH</sup> February 2024**



**DEAN, INFRASTRUCTURE PLANNING AND SUPPORT  
INDIAN INSTITUTE OF TECHNOLOGY BOMBAY  
POWAI, MUMBAI 400076.**

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## 1. Prequalification Details

- 1.1 Dean Infrastructure Planning and Support (IPS), on behalf of Director, IITB invites bids for Prequalification of construction agencies for subsequent Percentage Tendering of construction works for the Projects detailed below:

NIPQ No.	NIT No.: IITB/DIPS/ASB1/PQ/06
Name of Work & Location	Prequalification for Construction of Academic Science Block 1 (basement + ground +10 upper floors) including finishing works, internal water supply, sanitary and electrical installations, firefighting, fire alarm and ELV systems, laboratories, lifts, Airconditioning, external development and furniture works at IIT Bombay, Powai, Mumbai – 400076
Any Other Project	IITB reserves the right to consider the prequalified agencies for one more work of similar nature and magnitude.
Estimated cost of the tender for which bids will be invited from the pre-qualified bidders  Note: Current estimated cost is tentative and will get firmed up upon formation of detailed estimates	Rs.307 Crores
<b>Period of Completion</b>	<b>30 Months including monsoon period</b>

## 1.2 Scheduled Dates

- i. Date of Notice to Inviting the PQ Tender : **19<sup>th</sup> February 2024**
- ii. Date for Pre-Bid meeting : **26<sup>th</sup> February 2024 at 15.00 Hrs**
- iii. Last date for submission of Bid : **18<sup>th</sup> March 2024 up to 15.00 Hrs**
- iv. Time and date of opening of Bid : **18<sup>th</sup> March 2024 at 15.30 Hrs**

The Pre-Bid meeting will be held as scheduled above in the office of Dean (IPS), 1st Floor, Nandan Nilekani Main Building, Indian Institute of Technology Bombay, Powai, Mumbai 400076. Intending bidders shall participate in person or through their authorised representatives. Any queries can be raised in the meeting. Intending bidders can also raise queries through email IDs given in Para 5.1 on or before the scheduled date of Prebid Meeting.

The physical submission of Prequalification Bid on or before the scheduled date and time shall be made at the office of Dean (IPS), 1<sup>st</sup> Floor, Nandan Nilekani Main Building, Indian Institute of Technology Bombay, Powai, Mumbai 400076.

## 2. Brief Particulars of the work for which Notice for inviting for Prequalification:

Indian Institute of Technology (IIT) Bombay is situated in Powai, Mumbai. The campus is fully functional. Following are the brief details of the work under present tender. However, this scope is not exhaustive but only indicative.

### 2.1 Project Description and Scope of work:

The site is in Mumbai at IIT Bombay, Powai campus. The proposed building is an Academic Block 01 building for Chemistry and Chemical Engineering Department (Ground + 10 floors). Total height of building from Ground to top of habitable floor (10th

floor) is 45m. It has a part basement and part mezzanine with Utility areas, storage facility, underground Water tanks & Pump room and terrace with overhead water tanks with space for HVAC utilities and Solar panels. The Floor height from 1st to 10th floor is 3.90m. Ground floor height is 5.40m with entrance lobby, lounge, cafeteria along with few lab spaces. The details and scope of works are elaborated below.

1. Academic Science Block-1 Building is meant for 2200 people (students +faculty + staff (1200 nos.) + floating population (1000 nos) which includes Finishing works, Water Supply & Sanitary installations, Internal Electrical Installation & Cable laying, Firefighting system, Automatic Fire Alarm & PA System, Lifts, Mechanical Ventilation and Site Development Works, at IIT Bombay.
2. The Total Built up area is 32,821.43 Sq.M (3,53,290 Sq.Ft.)
3. The building is designed to achieve a GRIHA rating of 3/4 Star. Few of the construction materials are based on the norms stipulated by GRIHA.
4. Ground floor has double height amenity spaces like Entrance lobby, Cafeteria with pantry, lounge area, Fire control and MEP Room, Server room, Chemistry Workshop, and lab with facilities/equipment like – X-ray diffraction lab, Nuclear magnetic resonance (NMR), scanning electron microscope (SEM), Transmission electron microscope (TEM), Electron paramagnetic resonance (EPR) machine, soft matter Lab, Reaction Engineering Lab, Bio-chemical Lab etc.
5. The 1st floor has admin spaces like- departmental office space, meeting room, library, seminar hall, conference room, faculty lounge and a Central Instrumentation Facility for Chemistry Department.
6. 2nd floor onwards, up to 10th floor, the spaces are divided into 4 parts, namely:
  - i) Wet lab space- Reaction Engineering Lab, Soft matter and Fluid Mechanics lab, Bio-chemical Engineering lab, Fluid mechanics lab, Bio-chemistry Lab, Materials Characterization lab, Synthetic Lab for In-organic Chemistry, Synthetic lab for organic Chemistry.
  - ii) Dry lab Space- process systems engineering labs, Molecular simulation labs, Computational labs, Analytical labs with Instrumentation room.
  - iii) Faculty Cabin with Student sitting space.
  - iv) MEP and utilities space with Common Toilets.
7. All enclosed areas are air conditioned. Chilled water system is adopted for Air conditioning with air cooled chillers located on terrace for a total capacity of approximately 1000 TR. The lab areas with fume hoods have once-through ventilation, i.e. incoming fresh air is completely exhausted through fume hoods and no air is recirculated. While the rest of the non-lab areas have air recirculated. Toilets have mechanical exhaust system while the lobbies and common areas are naturally ventilated.
8. Terrace floor comprises of Overhead tanks for fire/ flushing and domestic water supply, space for mechanical ventilation of labs with wet scrubbers, heat recovery TFA and Solar Panels.
9. Sewage and wastewater will be connected to Municipal sewer line. The wastewater from the labs will be collected separately at source and stored separately for off-site disposal.
10. Rainwater from the terrace will be drained through pipes and connected to the nearest Nalla.
11. Internal electrification of the building is with Distribution cable, Panels, DBs etc.
12. Power distribution system with Rising Main and DBs is considered.

13. Building will have Wi-Fi system on all floors. Additionally, data points will be provided to all areas.
14. Building Earthing and separate Chemical Earthing for some Specialized Equipment is considered.
15. Fire-fighting system, Fire Lifts, Sprinkler system, Public Address System and Fire alarm system will be as per fire CFO NOC. Drinking water Pump Sets, Access control system, CCTV surveillance is considered.
16. Site Development works comprises of storm water drain, landscaped area with some outdoor seating space at the entrance, pathways, other external MEP services and bicycle parking.
17. Chemistry and Chemical lab set up details, its design requirements, space distribution and area allocation are detailed in the enclosed Annexure -1.

### **3. Bidding Methodology**

Instant Bids are being invited to have pre-qualified execution agencies on board for the construction of a prestigious academic building inside IIT Bombay Campus. After evaluation of bids, a list of short-listed Bidders will be prepared. Thereafter, IITB will float the composite Tender consisting of General Conditions of Contract, plans, general and particular specifications, schedule of quantities of various types of items of work to be executed, approved makes etc. for submission of the Price Bid.

### **4. Validity of the Prequalification**

Prequalification of the Eligible Bidder is valid for **six (6) months** from the date of submission of the Prequalification Bid. IITB Reserve the right to consider the Prequalified Bidder for one more similar nature and magnitude of work if requirement comes within the validity period.

### **5. Instructions and Information to the Bidders**

- 5.1** For any queries, send an Email to Dean (IPS) ([dean.ips@iitb.ac.in](mailto:dean.ips@iitb.ac.in)), and copy to Chief Program Management Consultant (PMC) ([pmc.ips@iitb.ac.in](mailto:pmc.ips@iitb.ac.in)), Office of Dean (IPS) ([dean.ips.office@iitb.ac.in](mailto:dean.ips.office@iitb.ac.in)) and Project Officer ([po.ips@iitb.ac.in](mailto:po.ips@iitb.ac.in)).
- 5.2** Venue for all personal interactions related to this Tender: Office of Dean (IPS), 1<sup>st</sup> Floor, Nandan Nilekani Main Building, IIT Bombay, Powai, Mumbai 400 076.
- 5.3** Entire bid document for prequalification shall be submitted in single envelope suitably superscribed as below:  
"Eligibility and Prequalification Technical Documents"
- 5.4** Last Date & time for submitting the Bid to Office of Dean (IPS) at 1<sup>st</sup> Floor, Nandan Nilekani Main Building, IITB Campus, Powai, Mumbai 400 076 on or before the date as per Para 1.2 above.
- 5.5** Bids to be opened on the mentioned date & time (refer Para 1.2 above) in the office in presence of the Bidders' representatives who may wish to be present at Dean (IPS) office, 1<sup>st</sup> floor, Nandan Nilekani Main Office Building, IIT Bombay Campus, Powai, Mumbai 400 076.
- 5.6** General Guidelines
  - a. Letter of Transmittal and forms for Prequalification are provided in Para 6.25.1
  - b. All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If, for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. Even if no information is to be provided in column, a "nil" or "no such case" entry should be made in that column. If any particulars / query is not applicable in case of the bidder, it should be stated as "not applicable". The bidders are

cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the bidder being summarily disqualified. Bids received late will be rejected.

- c. The bid should be type written / neatly hand written. The bidder should sign each page of the bid and seal of the company should also be put on each page.
- d. Over writing should be avoided. Correction, if any, should be made by neatly crossing out, initialling, dating and rewriting. Pages of the pre-qualification document are numbered. Additional sheets, if any, added by the Contractor, should also be numbered by him. These should be submitted as a package with signed letter of transmittal.
- e. References, information and certificates from the respective clients, certifying suitability, technical know-how or capability of the bidder should be signed by an officer not below the rank of Executive Engineer or equivalent.
- f. The bidder may furnish any additional information, which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. He is, however, advised not to furnish superfluous information. No information shall be entertained after submission of pre- qualification document unless it is called for by the Employer.

#### **5.7** Method of Application

- a. If the bidder is an individual, the bid shall be signed by him above his full typewritten name with current address.
- b. If the bidder is a proprietary firm, the bid shall be signed by the proprietor above his full typewritten name and the full name of his firm with its current address.
- c. If the bidder is a firm in partnership, the bid shall be signed by all the partners of the firm above their full typewritten names and current addresses or alternatively by a partner holding power of attorney for the firm. In the latter case, a certified copy of the power of attorney should accompany the bid. In both cases a certified copy of the partnership deed and current address of all the partners of the firm should accompany the application.
- d. If the bidder is a limited company or a corporation, the bid shall be signed by a duly authorized person holding power of attorney for signing the bid accompanied by a certified copy of the power of attorney. The bidder should also furnish a copy of this memorandum of Articles of Association duly attested by a public Notary.

**5.8** The Prequalification Bid documents can be downloaded from the Central Public Procurement Portal (CPPP) website and IITB portal i.e. on the path <https://eprocure.gov.in/eprocure/app> and <https://www.iitb.ac.in/deanpl/tender.html> respectively at free of cost.

**5.9** Copy of certificate of work experience and other documents as specified in this Prequalification document shall be physically submitted in the office of Dean (IPS).

**5.10** The bid submitted are liable to become invalid if:

- a. The bidders are found ineligible.
- b. The bidder does not submit all the documents (including GST registration) as stipulated in the bid document.

**5.11** After opening of the eligibility documents, the deficiencies found in the bid of each bidder vis -a -vis requirements as per Notice Inviting Bid for Prequalification will be communicated to individual bidders by email with a request to furnish required documents within three working days of receipt, failing which it will be presumed that the individual bidder do not have any further documents to furnish and decision on bids will be taken accordingly with the available documents.

**5.12** Final decision-making Authority

The employer (IITB) reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time, without assigning any reason or incurring any liability to the bidders.

**5.13** List of the documents to be submitted by the Bidders within the period of bid submission listed as below:

Prequalification and Eligibility/ Technical documents as listed below as minimum are enclosed in an envelope superscribed as "Pre-Qualification / Eligibility Documents:

- (a) Letter of transmittal.
- (b) Certificate of Registration for GST and acknowledgement of up-to-date filed return.
- (c) Certified copy of the partnership deed & current address of all the partners of the firm and certified copy of the power of attorney for signing the application/copy of memorandum of Articles of Association duly attested by a Public Notary and certified copy of the power of attorney for signing the application (If applicable).
- (d) Details of the similar works carried out as per the Para 6.3 under this Section
- (e) Certificates of Financial Turnover from Chartered Accountant (Form A).
- (f) Bank Solvency Certificate (Form B) or Net Worth Certificate from Chartered Accountant (Form B-1).
- (g) Similar Nature of Works completed (Form C).
- (h) List of works executed for the last 7 years (Project name, date of start, scheduled and actual date of completion, Work Order value, final value of the work upon completion, name of the Client, etc.).
- (i) Projects under Execution (Form C-1)
- (j) Bidding Capacity (calculated as per Form C-3)
- (k) Nature and magnitude of HVAC scope (system and magnitude) carried out (Form C-4 or C-4-1 as applicable) during the last 7 years
- (l) Declaration of specialised agencies for HVAC scope of work (Form C-5) as applicable
- (m) Declaration of specialised agencies for Laboratory furniture and office furniture (Form C-6)
- (n) in the Bidder in the past and the nominated sub-agencies proposed by the Bidder.
- (o) Balance sheet for Last three Financial Years.
- (p) Performance Report of works (Form D).
- (q) Structure & Organisation (Form E)
- (r) Affidavit for "Proforma of Affidavit for Non-Black Listing" (Form F).
- (s) Any other document specified in the notice.
- (t) Check List duly filled and signed and submitted all the documents in the order and serial numbered as per the Check List.

## 6. Eligibility Criteria

**6.1** Prequalification Bids shall be considered from eligible contractors who have satisfied eligibility criteria as specified in the Bid Document, vide documents to be submitted in an Envelope subject to producing definite proof (from the appropriate authority which shall be to the satisfaction of the competent authority) of having satisfactorily completed similar works of magnitude specified hereinafter.

**6.2** Joint ventures and Special Purpose vehicles are not accepted.

**6.3** Should have completed the works as mentioned below during the last Seven (7) years ending previous day of last date of submission of Bid. Ongoing works falls under the below which are substantially completed each Building to an extent of 80% of the contract value also shall be considered.

a. Three Similar Works each costing not less than Rs **123 Crores** (including GST)

or

b. Two Similar Workseach costing not less than Rs **184 Crores** (including GST)

or

c. One Similar Work costing not less than Rs **246 Crores** (including GST)

6.3.1 Similar Work(s) shall mean 'the building consisting of RCC Framed Structure having minimum 8 (Eight) storey involving Civil, plumbing, Internal Electrification, Firefighting etc., all completed under one contract. Each basement, stilt / ground floor constructed in the building shall be considered as a storey.

6.3.2 The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to previous day of last day of submission of Prequalification Bid.

6.3.3 In case the GST was not attracted for Government Works, the considerations shall be given only on the submission of documentary proof while evaluating the Criteria under Article 6.3.

**6.4** One building construction work of any nature and magnitude either from the above or separately carried out for any Central or State Government / Central or State Autonomous Body/ Central or State Public Sector.

**6.5** Should have completed at least one building work involving Central Chilled water HVAC system either from the above or separately carried out at least total to 200 Ton of Refrigeration (TR) during last 7(seven) years. Bidder shall submit such work experience of the HVAC chilled Water System in the Form C-4

OR

Bidder should nominate atleast one and maximum 3 specialised sub-agency (s) who fulfil the Eligibility Criteria of sub-agency for HVAC works as per Article 6.6. Bidder shall also make the credentials of such agencies in the Form C-4 and an undertaking by the Bidder in the Form C-5 as part of the bid.

**6.6** Eligibility Criteria for selection of sub-agency for **HVAC system** (excluding VRF systems):

For the purpose of evaluation of the specialised agency (sub-agency), 'Similar Works' under this Article for HVAC system shall mean supply installation, testing and commissioning of Centralized Chilled Water System. This includes, but is not limited to - air/water-cooled chillers, variable flow pumps, air handling systems, ducting, fire-dampers, chilled water piping with insulation, HVAC automation, etc. all under a single work order.

Bidder shall propose minimum 1 (one) or up to maximum 3 (three) specialised specialised agencies (sub-agencies) who meets with the following criteria in terms of capacity and have executed them in the last 7 years:



- a. Three Similar Works each having minimum capacity of 270 TR  
or
- b. Two Similar Works each having minimum capacity of 400 TR  
or
- c. One Similar Work having minimum capacity of 800 TR

The above criteria shall be established by the proposed specialised agency by way of submitting the completion certificates and supporting data along with the complete details as per Form C-4 along with Declaration of Nominated Specialised Agency in Form C-5.

In case Bidder has inhouse capability of carrying out HVAC works and meeting with the above criteria, Bidder shall submit the completion certificates and supporting data along with the complete details as per Form C-4-1 in lieu of Form C-4 and C-5.

Bid shall accompany the method statement for execution of HVAC scope of work from each nominated sub agency or by the bidder as applicable.

Letter of Acceptance of the nominated Sub-Agency (s) shall be submitted by the Bidder along with Form C-4-1 as part of the Bid.

**6.7** Eligibility Criteria for selection of sub agency (specialised agency) for **laboratory set up** works:

For the purpose of evaluation of the sub-agency, 'Similar Works' under this Article for Laboratory set up shall mean experience in Designing, supplying, Installation, Testing and commissioning of entire chemical and/or biological laboratory set-ups. This includes, but is not limited to - laboratory furniture, gas distribution systems, fume hoods, exhaust systems, allied MEP works, specialized finishes, chemical / gas storage systems, etc. all under a single work contract.

Bidder shall propose minimum one or maximum 3 specialised sub-agencies who meet with the following criteria in terms of capacity and have executed these in the last 7 years:

- a. Three similar works for laboratory carpet area of each not less than 4,000 sq. m.  
Or
- b. Two similar works for laboratory carpet area of each not less than 5,500 sq. m.  
Or
- c. One similar work for laboratory with carpet area not less than 11,000 sq. m

The above criteria shall be established by the proposed sub agency by way of submitting the completion certificates and supporting data along with the complete details as per Form C-6 along with Declaration of Nominated Specialised Agency in Form C-7. Execution method statement from each agency detailing the execution methodologies, functionality, safety, quality and technical expertise shall also become the part of the Bid.

Letter of Acceptance of the nominated Sub-Agency (s) shall be submitted by the Bidder along with Form C-6 as part of the Bid.

In case Bidder has inhouse capability of carrying out Similar works of this scope and meeting with the above criteria, Bidder shall submit the completion certificates and supporting data along with the complete details as per Form C-6 along with the execution method statement.

**6.8** Bidders are advised to submit copy of Agreement/ final bill or any other relevant document in support of their proposed completed work (s) which conforms to the definition of Similar Work and other criteria through para 6.1 to 6.7 above.

**6.9** In case of private works, the same shall be supported by TDS certificate for the work(s) under consideration.

**6.10** Turnover: Should have average annual financial turnover of any best performed 3 years out of the immediate last 5 consecutive financial years ending 31st March 2023 shall be Rs **92 Crores** on construction works. The value of annual turnover figures shall be

brought to the current value by enhancing the actual turnover figures at simple rate of 7% per annum.

**6.11** Profit / loss: Should not have incurred any loss (profit after tax should be positive) for more than two years during available last five consecutive balance sheet (balance sheet in case of private/public limited company means its standalone financial statement and consolidated financial statement both), duly audited and certified by the Chartered Accountant.

**6.12** Bidding Capacity: Should have bidding capacity equal to or more than the estimated cost of the work as indicated in Inviting Prequalification Bid. The bidding capacity shall be worked out by the following formula:

$$\text{Bidding Capacity} = \{[A \times N \times 2] - B\}$$

Where,

A = Maximum turnover in construction works executed in any one year during the last seven years taking into account the completed as well as works in progress. The value of completed works shall be brought to current costing level by enhancing at a simple rate of 7% per annum.

N = Number of years prescribed for completion of work for which bids have been invited.

B = Value of existing commitments and ongoing works to be completed during the period of completion of work for which bids have been invited.

Note: The bidder should submit bidding capacity as per Form 'C-3'.

**6.13** Banker's Certificate from a Commercial Bank or Net worth Certificate:

Should have Banker's Certificate of the amount equal to Rs **123 Crores**

or

Net worth certificate of minimum Rs **31 Crores** issued by certified Chartered Accountant with UDIN.

**6.14** Financial Information

Bidder shall furnish Annual financial statement for the last five years (in the Form "A"). Bidder shall also furnish Banker's Certificate (in form "B") and Net worth certificate (in form "B-1").

**6.15** Experience in Works, highlighting the experience in Similar Works.

List of eligible similar nature of works successfully completed during the last seven years (In the Form "C", "C1", "C3").

**6.16** Performance report of works referred in form "C" shall be submitted in the form of 'Form "D" signed by officer not below the rank of Executive Engineer /Project Manager or equivalent.

**6.17** Organisation information: Bidder shall submit information in respect to his organization (in the Form "E").

**6.18** Eligibility Letter of Transmittal shall be submitted in the format provided in Para 6.25.1.

**6.19** The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to previous day of last date of submission of Prequalification Bid.

**6.20** The bidder shall submit documents/report detailing each of the above signed by the authorized signatory and shall be part of the bid.

**6.21** Certificate of Financial Turn over: At the time of submission of bid, Bidder has to Submit Affidavit/Certificate from CA mentioning Financial Turnover of last 5 years and further

details if required may be asked from the Bidder after opening of eligibility bids. There is no need to submit entire voluminous balance sheet.

**6.22** To become eligible, the bidders shall have to furnish and affidavit, duly signed and stamped, as Under:

"I / We undertake and confirm that eligible Similar Work(s) has/have not been got executed through another contractor on back-to-back basis. Further that, if such a violation comes to the notice of Dean IPS, then I/We shall be debarred for bidding / tendering in IITB in future forever.

**6.23** The intending bidder must read the terms and conditions as spelt out in this Prequalification document. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.

**6.24** It will be obligatory on part of the Bidder to sign and stamp the Prequalification document including any additions, changes, modifications, Record notes of Pre-Bid meeting, addendums and amendments issued etc.

**6.25** The Bidders shall be subject to thorough verification by the Technical Evaluation Committee constituted by IITB of their credentials, inspection of ongoing / completed construction works or both at the discretion of IITB for quality (form D-1 for reference), safety, time schedules and execution methodologies, office establishment and facilities etc. The performance reports from the Authorities to whom the works are being executed or completed shall also become part of the technical evaluation.

Responsibility of obtaining necessary permissions from the respective Authorities to visit the Bidders ongoing / completed construction works for inspection by the IITB Technical Evaluation Committee lies with the Bidder.

**6.26** Bids of those Bidders who meet the eligibility criteria under para 6.1 to 6.22 will be evaluated for the following criteria by scoring method on the basis of details furnished by the Bidder.

- a. Quality/safety performance based on one Similar ongoing and completed works. **- 15 marks**
- b. Schedule performance of the current and past Similar works, in the last 5 awarded works **- 15 marks**
- c. Demonstration of capability regarding proposed sub-agency for HVAC work including the following parameters:
  - i) Past performance of sub-agency
  - ii) Methodology of erection and installation
  - iii) Any other relevant features**- 10 marks**
- d. Resources including manpower, equipment software etc. with the agency to be made available for deploying at site **- 15 marks**
- e. Demonstration of capabilities of having undertaken similar projects under local by-laws / working environment using local resources etc. **- 15 marks**
- f. Demonstration of the self or sub-agency's capabilities of having executed laboratory works involving design, construction, quality, commissioning and compliance with relevant standards (ISO, SEFA, ASHRAE, OSHA, NFPA, and/or equivalent EN/DIN standards). Completed laboratory projects with valid certification from National/International Accreditation Boards will be considered as an added advantage. **- 30 marks**

**Total**

**100 marks**

To become eligible for short listing, the Bidder shall secure at least 60% of the allocated marks for each category of the above parameters and also shall get 75% marks in aggregate to eligible for prequalification.

**7. FORMS / FORMATS**

**i. FORMAT FOR INFORMATION REGARDING ELIGIBILITY LETTER OF TRANSMITTAL**

To:

Dean (IPS),

1<sup>st</sup> floor, Nandan Nilekani Main building,

Indian Institute of Technology Bombay (IITB) Powai, Mumbai-400076.

Sub: Construction of \_\_\_\_\_ at IIT Bombay.

Dear Sir,

Having examined the details given in **Notice inviting Bid for Prequalification** for the above work, I/We, hereby submit the relevant information.

1. I / We, hereby certify that all the statements made, and information supplied in the enclosed form "A" to "F" accompanying statements are true and correct.
2. I/We have furnished all information and details necessary for pre-qualification and have no further pertinent information to supply.
3. In case, I / We submit the requisite Banker's Certificate, I / We authorize the Dean (IPS) to approach the issued Bank to confirm the correctness thereof.
4. I/We, also authorize Dean (IPS) to approach individuals, employers, firms and corporation to verify our competence and general reputation.
5. I/We, submit the following certificates in support of our suitability, technical know-how and capability for having successfully completed the following eligible Similar Works: -

Name of work:	Certificate from:

**Certificate:**

It is certified that the information given in the enclosed eligibility bid are correct. It is also certified that I / we shall be liable to be debarred, disqualified/ cancellation of enlistment in case any information furnished by me/us found to be incorrect.

**Enclosures:**

Date of Submission:

Signature(s) of Bidder(s)

Seal of the Bidder

**7.1 FORMS 'A' to 'F'.**

**ii. Form A – FINANCIAL INFORMATION AND PROFIT & LOSS STATEMENT**

Financial Analysis – Details to be furnished duly supported by figures in balance sheet / Profit and Loss account for the last five years duly certified by the Chartered Accountant as submitted by the Bidder to the Income–Tax IITB (Copies to be attached).

Year	2018-19	2019-20	2020-21	2021-22	2022-23	Last 5 years average financial Turnover
Gross Annual Turnover on Construction works						
Profit/loss						

Signature(S) Of Bidder(s)

with Seal

Signature of Chartered Accountant

with Seal

**iii. FORM "B": FORM OF BANKER'S CERTIFICATE FROM A SCHEDULED BANK  
(Not more than three months old)**

This

istocertifythattothebestofourknowledgeandinformationthatM/S./Sh.....  
.....having marginally noted address, a customer of our bank are / is respectable and can be  
treated as good for any engagement up to a limit of Rs.....(Rupee -----  
-----only).

This certificate is issued without any guarantee or responsibility on the bank or any of the officers.

Address and (Signature) for the Bank

NOTE:

1. Banker's certificates should be on letter head of the Bank addressed to tendering authority.
2. In case of partnership firm, certificate should include names of all partners as recorded with the Bank.

**iv. FORM "B-1" FOR CERTIFICATE OF NET WORTH FROM CHARTERED**

**ACCOUNTANT**

"It is to certify that as per the audited balance sheet and profit & loss account during the financial year ..... , the Net Worth of M/s ..... (Name & Registered Address of individual/firm/ company), as on ..... (the relevant date)is Rs..... after considering all liabilities. It is further certified that the Net Worth of the company has not eroded by more than 30 % in the last three years ending on (the relevant date)." Unique Document Identification Number (UDIN) .....

Signature of Chartered Accountant .....

Name of Chartered Accountant .....

Membership No. of ICAI

Date and Seal

**v. FORM "C":**

DETAILS OF ELIGIBLE SIMILAR NATURE OF WORKS COMPLETED DURING THE LAST SEVEN YEARS ENDING PREVIOUS DAY OF LAST DATE OF SUBMISSION OF BIDS

S. No.	Name of work/ project and location	Owner or sponsoring organization	Cost of work in crores of rupees	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation/ arbitration cases pending/ in progress with details*	Name and address/ telephone number of officer to whom reference may be made	Whether the work was done on back to back basis Yes/ No
1	2	3	4	5	6	7	8	9	10

*\*Indicate gross Amount Claimed and Amount Awarded by the Arbitrator.*

Signature(s) of Bidder(s)

**vi. FORM 'C'-1**

**PROJECTS UNDER EXECUTION**

S. No.	Name of work/ Project and location	Owner or sponsoring organization	Cost of work in crores of rupees	Date of commencement as per contract	Stipulated date of completion	Up to date percentage progress of work	Slow progress if any and reasons thereof	Name and address/ telephone number of officer to whom reference may be made	Remarks
1	2	3	4	5	6	7	8	9	10

Signature(s) of Bidder(s)

**vii. FORM 'C'-2**

- Form C2 is deleted



**viii. FORM 'C'-3**

**Calculation of bidding capacity**  
**Details of existing commitments and ongoing works.**

S. No.	Name of work/ project and location	Owner or sponsoring organization	Contract value in croreofrupees	Date of commencement as per contract	Stipulated date of completion	Up to date percentage progress of work	Remaining work in percentage (100-column 7)	Existing commitment Column 4 x Column 8	Name and address/ telephone number of officer to whom reference may be	Remarks
1	2	3	4	5	6	7	8	9	10	11

Total (B) =

Maximum turnover in last seven years = Rs.....

Updated value of turnover (A) = Rs.....

No. of years (N) = .....

Bidding Capacity= {[AxNx2.0]-B} =

Certificate:

I certify that all the awarded and ongoing works have been included in the above list.

Signature(s) of Bidder(s)

**ix. FORM "C-4:**

DETAILS OF HVAC WORKS CARRIED OUT BY PROPOSED SUB-AGENCIES (AT LEAST ONE AGENCY AND MAXIMUM THREE AGENCIES) DURING THE LAST 7 (SEVEN) YEARS ENDING PREVIOUS DAY OF LAST DATE OF SUBMISSION OF BID

S. No	Name incorporation of the Agency	Type of Building (Hostel / residential / institutions etc.	Client / owner of the Building	Year in which Project is completed	Type of HVAC System	Capacity in terms of TR	Cost of HVAC component	Remarks

Note:

- Certificate of completion of HVAC scope of work by the sub-agency with respect to system and magnitude as per the Article 6.6 shall become part of the Bid.
- Letter of Acceptance of the nominated Sub-Agency (s) shall be submitted by the Bidder along with Form C-4 as part of the Bid.**

**OR**

**FORM C-4-1**

DETAILS OF HVAC WORKS CARRIED OUT BY THE BIDDER DURING THE LAST 7 (SEVEN) YEARS ENDING PREVIOUS DAY OF LAST DATE OF SUBMISSION OF BID

S. No	Type of Building (Hostel / residential / institutions etc.	Client / owner of the Building	Year in which Project is Completed	Type of HVAC System	Capacity in terms of TR	Cost of HVAC component	Remarks

Note:

1. Certificate of completion of HVAC scope of work by the Bidder with respect to system and magnitude as per the Article 6.6 shall become part of the Bid.
2. Bidder shall also provide the Execution method statement from the each nominated sub-agency indicating the successful completion of this scope with quality, safety and the efficient plan for completion.

Signature(s) of Bidder(s)

Seal of the Bidder

**x. FORM "C-5:**

DECLARATION OF NOMINATED SPECIALISED AGENCY FOR CARRYING OUT THE HVAC SCOPE OF WORK

To:

Dean (IPS),

1<sup>st</sup> floor, Nandan Nilekani Main building,

Indian Institute of Technology Bombay (IITB) Powai, Mumbai-400076.

Sub: Construction of \_\_\_\_\_ at IIT Bombay.

Dear Sir,

I / We, hereby undertake to engage one of the following agencies for carrying out the HVAC system for the subject project. We also committed to submit the credentials of all the nominated agencies along with **execution method statement** from **each agency** detailing the execution methodologies, functionality, safety, quality and technical expertise as part of the Bid for prequalification.

- 1.
- 2.
- 3.

Further undertake that the agency from the above will get engaged only upon written approval by IITB.

Signature(s) of Bidder(s) and Seal

Note: In case Bidder has inhouse capability of executing the HVAC scope and qualifies as per the Eligibility Criteria as per Article 6.6, FORM C-5 need not be submitted but shall provide the valid documentary proof of execution of the HVAC Works meeting the Eligibility Criteria under Article 6.6. Bidder shall also provide the Execution method statement indicating the successful completion of this scope with quality, safety and the efficient plan for completion.

**xi. FORM “C-6:**

DETAILS OF LABORATORY SET UP WORKS INCLUDING DESIGNING, SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF ENTIRE CHEMICAL AND/OR BIOLOGICAL LABORATORY SET-UPS. THIS INCLUDES, BUT IS NOT LIMITED TO - LABORATORY FURNITURE, GAS DISTRIBUTION SYSTEMS, FUME HOODS, EXHAUST SYSTEMS, ALLIED MEP WORKS, SPECIALIZED FINISHES, CHEMICAL / GAS STORAGE SYSTEMS, ETC CARRIED OUT BY PROPOSED SUB-AGENCIES (AT LEAST ONE AGENCY AND MAXIMUM THREE AGENCIES) DURING THE LAST 7 (SEVEN) YEARS ENDING PREVIOUS DAY OF LAST DATE OF SUBMISSION OF BID

S. No	Name incorporation of the Agency	Type of Lab	Client / owner	Year in which Project is completed	Brief description of the of the lab and its carpet area	Cost of Laboratory Project	Remarks

Note:

1. Certificate of completion complying to requirements stipulated in Article 6.7 shall become part of the Sub-Agency proposal.
2. Execution method statement indicating the successful completion of this scope with quality, safety and the efficient plan for completion.
3. **Letter of Acceptance of the nominated Sub-Agency (s) shall be submitted by the Bidder along with Form C-6 as part of the Bid.**

**xii. FORM “C-7:**

DECLARATION OF NOMINATED SPECIALISED AGENCY FOR CARRYING OUT THE LABORATORY SET-UP.

To:

Dean (IPS),

1<sup>st</sup> floor, Nandan Nilekani Main building,

Indian Institute of Technology Bombay (IITB) Powai, Mumbai–400076.

Sub: Construction of \_\_\_\_\_ at IIT Bombay.

Dear Sir,

I / We, hereby undertake to engage one of the following agencies for carrying out the setup of laboratory with lab furniture and fume hoods for the subject project. We also committed to submit the credentials of all the nominated agencies along with **execution method statement** from **each agency** detailing the execution methodologies, functionality, safety, quality and technical expertise as part of the Bid for prequalification.

- 1.
- 2.
- 3.

Further undertake that the agency from the above will get engaged only upon written approval by IITB.

Signature(s) of Bidder(s)

Seal of the Bidder

**i. FORM "D":**

**PERFORMANCE REPORT OF WORKS REFERRED IN FORM 'C'**

1. Name of Work/Project and Location:
2. Agreement No.
3. Estimated Cost:
4. Cost of the project done:
  - i. Tendered Cost:
  - ii. Value of work done:
5. Date of start
6. Date of completion
  - iii. Stipulated date of completion:
  - iv. Actual date of completion:
7.
  - i. Whether case of levy of compensation for delay has been decided or not: Yes/No
  - ii. If decided, amount of compensation levied for delayed completion if any
8. Amount of reduced rate items, if any
9. Performance Report:

(i)	Quality of Work	:Outstanding/ Very Good/ Good/Poor
(ii)	Financial Soundness	:Outstanding/Very Good/Good/Poor
(iii)	Technical Proficiency	: Outstanding/ Very Good/ Good/Poor
(iv)	Resourcefulness	: Outstanding/ Very Good/ Good/Poor
(v)	General behaviour	: Outstanding/Very Good/ Good/Poor

Signature:  
(Executive Engineer or Equivalent)

Date:

**Note:** If Name of Work is not clearly defining scope of work as specified in the definition of similar work, bidders are advised to submit a copy of Agreement/ final bill or any other relevant document in support of their proposed completed work conforming to the definition of similar work.

**ii. FORM D1 (FOR INFORMATION)****ASSESSMENT OF QUALITY FOR COMPLETED AS WELL AS ONGOING WORKS**

Name of work: -

Date of Inspection: -

Date of submission of the report: -

<b>A. General Observations and Operational Aspects</b>		<b>Yes/No</b>
1	Availability of approval from local bodies in case of construction of private buildings.	
2	Availability of approved structural drawings.	
3	Observation on seepage/ leakage in the building	
4	Whether line and level maintained	
5	In case of basement, observation on seepage, if any.	
6	Any structural defects/ distress observed. If yes give details	
7	Whether safety measures adopted at site as per CPWD safety code and/or govt. guidelines are adequate or not.	
8	Whether the welfare facilities provided to labour as per clause 19 H of GCC for CPWD works/ and or govt. guidelines are adequate or not.	
9	Whether AHU getting automatically switched off and fire dampers closed in case of fire signal	
10	Whether thimbles used for termination of wires in DBs, EBDs and panels?	
<b>B</b>	<b>Quality of Work</b>	<b>Marks Assessed</b>
1	Quality of plaster/finishing	
2	Quality of RCC/CC work	
3	Quality of flooring	
4	Quality of wood work	
5	Quality of steel work / aluminium work	
6	Quality of plumbing and sanitary installation	
7	Quality of workmanship	
8	Quality of water proofing	
1.	If cladding done, observation on efficiency/ quality of cladding / brick work	

2.	Quality of internal electrification work	
3.	Quality of DBs, EBDs and panels?	
4.	Quality of E&M equipment, panels and feeder pillar.	
5.	Quality of fire alarm system/ fire-fighting system	
6.	Quality of Air conditioning work.	
7.	Quality of Sub-Station based on complete live diagram, capacitor panel, power factor, insulating materials, cleanliness, cable termination, earthing pits, earthing of transformer /DG sets.	
8.	Availability of licenced software specifically AutoCAD AEC, Primavera and MS Office	
9.	Whether the available software mentioned above have been used for the project?	
10.	Full time Managers and Engineers of various discipline like Civil, Electrical, Mechanical, Planning, BIM, Quality and HSE.	
11.	Any other aspect (To be elaborated)	

### iii. FORM "E": STRUCTURE AND ORGANISATION

1. Name and address of the bidder:
2. Telephone No./Telex No./Fax No.
3. Legal status of the bidder (Attach copies of original document defining the legal status)
  - i. An individual
  - ii. A proprietary Firm
  - iii. Affirm in Partnership
  - iv. A limited company or Corporation
4. Particulars of registration with various Government bodies (Attach Attested Photocopy) Organisation /Place of Registration no.
  - i.
  - ii.
5. Names and Titles of Directors and Officers with designation to be concerned with this work.
6. Designation of individuals authorized to act for the organization.
7. Has the bidder, or any constituent partner in case of partnership firm, Limited company/joint venture, ever has been convicted by the court of Law? If so, give details.
8. In which field of Civil Engineering Construction and MEP Works the bidder has specialization and interest?
9. Any other information considered necessary, but not included above.

Signature(s) of Bidder(s)

**iv. FORM “F”: PROFORMA OF AFFIDAVIT FOR NOT BLACK LISTING**

I/we undertake and confirm that our firm/partnership firm has not been blacklisted by any State/Central/ IITs/PSUs/Autonomous bodies during the last 7 years of its operations. Further that, if such information comes to the notice of the IITB then I/we shall be debarred for bidding in IITB in future forever. Also, if such information comes to the notice of IITB on any day before date of start of work, Dean (IPS) shall be free to cancel the agreement and to forfeit the entire amount of Performance Guarantee (Scanned copy of this notarized affidavit to be uploaded at the time of submission of bid)

NOTE: Affidavit to be furnished on a 'non-Judicial' stamp paper worth Rs100/-.

Signature of Bidder(s)  
or an authorized Officer  
of the firm with stamp

Signature of Notary with seal

**8. Check list:**

Bidder shall follow and submit their Bid, indexed, page numbered and checked in the order as per the below Check List indicating the submission (Yes / No, by striking the not applicable). Bidder shall also submit any other specific instructions in the Notice Inviting Bid for Prequalification as part of the Bid which shall also be included in the Check List.

Sr. No.	Eligibility and Technical Documents	Submittal status		Page No.
		Yes	No	
1	Letter of Transmittal (as per Article 6.25.1)	Yes	No	
2	Certified copy of the partnership deed & current address of all the partners of the firm and certified copy of the power of attorney for signing the application/copy of memorandum of Articles of Association duly attested by a Public Notary and certified copy of the power of attorney for signing the application (If applicable) (as per Article 5.7.c)	Yes	No	
3	Copy of memorandum of Articles of Association duly attested by a public Notary for Limited Company or Corporation (If applicable) (as per Article 5.7. d).	Yes	No	
4	Certificate of Registration for GST and acknowledgement of up-to-date filed return	Yes	No	
5	PAN (Permanent Account Number) Registration	Yes	No	
6	List of Construction Plants and Machinery	Yes	No	
7	List of Plants and Machinery & Technical personnel proposed to be used for this project	Yes	No	
8	List of Technical personnel	Yes	No	
9	Balance sheet for the last three years	Yes	No	
10	Financial Information and Profit & Loss statement certified by CA for the last 5 consecutive balance sheet duly audited and certified by CA (in Form 'A')	Yes	No	
11	Bank Solvency Certificate (in the Form 'B') or Net Worth Certificate (in Form 'B-1')	Yes	No	
12	Eligible 'Similar Works' completed during last 7 years (in Form 'C')	Yes	No	
13	Projects under execution (in Form 'C-1')	Yes	No	
14	Calculation of bidding capacity with details of existing commitments and ongoing works (in Form 'C-3')	Yes	No	
15	Sub-agency experience of HVAC Works (in Form "C4")	Yes	No	



Sr. No.	Eligibility and Technical Documents	Submittal status		Page No.
		Yes	No	
	Letter of Acceptance from the nominated Sub-agency (s) for HVAC Works	Yes	No	
16	Undertaking, nominated sub-agency for HVAC Works (in Form "C5")	Yes	No	
17	Method Statement for execution of HVAC Works from the nominated Sub-Agency or the Bidder as applicable	Yes	No	
18	Nominated sub-agency experience of Laboratory set up with furniture and fume hoods (in Form "C6")	Yes	No	
	Letter of Acceptance from the nominated Sub-agency (s) for Laboratory set up with furniture and fume hoods	Yes	No	
	Bidder Undertaking, nominated sub-agency for Laboratory set up with furniture and fume hoods (in Form "C7")	Yes	No	
19	Method Statement for execution of laboratory set-up from the nominated Sub Agency or the Bidder as applicable	Yes	No	
20	Performance Report of Works referred in Form C (in Form 'D')	Yes	No	
21	Structure & Organisation (in Form 'E')	Yes	No	
22	Affidavit of 'not black listing' (in Form 'F') on non-judicial stamp paper	Yes	No	
23	Undertaking that the eligible Similar Work(s) have not been executed through another contractor on back-to-back basis (as per Article 6.20) duly signed and stamped	Yes	No	
24	Submission of signed and stamped all the components of the Notice Inviting Prequalification Bid documents and Record notes of Pre-Bid meeting, addendums and amendments to the Bid document if any (as per Article 6.22)	Yes	No	
25	Executed Government project supporting documents fulfilling the eligibility criteria (as per Article 6.4)	Yes	No	
26	HVAC system supporting documents fulfilling the eligibility criteria (as per Article 6.5)	Yes	No	
27	Similar works completed with supporting documents fulfilling the eligibility criteria (as per Article 6.3)	Yes	No	

Sr. No.	Eligibility and Technical Documents	Submittal status		Page No.
28	Any other information necessary to establish contractor's capabilities to complete the envisaged work	Yes	No	

Dated:.....

Signature with stamp of the Bidder:.....

**ANNEXURE 1**

**ASB 1 DESIGN REQUIREMENTS AND SPACE DISTRIBUTION**

**(ATTACHED AS SEPARATE SHEET)**